



UNIVERSITY OF TENNESSEE

UNIVERSITY OF TENNESSEE HEALTH SCIENCE CAMPUS

CAMPUS MASTER PLAN UPDATE

Agenda

Communication
Understanding
Process
Space Analytics
Opportunities
Discussion

Core Team



Shawn Gaither
Workplace Planner
DLR Group



Michael Del Giudice
Academic Health Center
Planner & Project
Manager
DLR Group



Krisan Osterby
Lead Campus Planner &
Principal in Charge
DLR Group



Linsey Graff
Engagement
Specialist
DLR Group



Alex Staneski
Space Analyst
DLR Group



Jackie Kolpek
Placemaking &
Site Planning
DLR Group



Stephen Berger
Facility Assessment &
Local Coordination
brg3s



James Collins
Transportation &
Infrastructure Planning
Kimley-Horn



Core Planning Team

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Academic Health Center Planner |
Project Manager
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Transportation & Infrastructure Planning
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Jacki Kolpek
Placemaking + Site Planning
DLR Group

Stephen Berger
Facility Assessment & Local Coordination
brg3s

Support Team & Specialty Resources



Phil LiBassi
Clinical Facility Planner
DLR Group



Danile DeBoo
Research Facility Planner
DLR Group



Roger Chang
MEP & Net Zero Planner
DLR Group



Stu Rothenberger
Student Experience,
Dining, & Amenities
DLR Group



David Loehr
Mixed-Use
DLR Group



Faraaz Mirza
Housing
DLR Group



Raymond Kent
AV / IT
DLR Group



Matthew Jennings
Historic Preservation
DLR Group



Connie Gowder
Cost Estimator
CONNICO, Inc.



Ron Thompson
Mechanical Engineer
Allen & Hoshall



Rob Herd
Electrical Engineer
Allen & Hoshall

Roles and Responsibilities



Executive Committee:

- Set the Vision
- Align with the Strategic Plan
- Confirm Concepts and Implementation Plan



Working Committee:

- O&M Interface
- Confirm Data, Analysis, Experience
- Contribute Ideas



Stakeholders:

- User-group discussions / listening sessions
- Partner engagement and support

Communication Protocol

 Primary Point of Contact:

Andrea Kolen

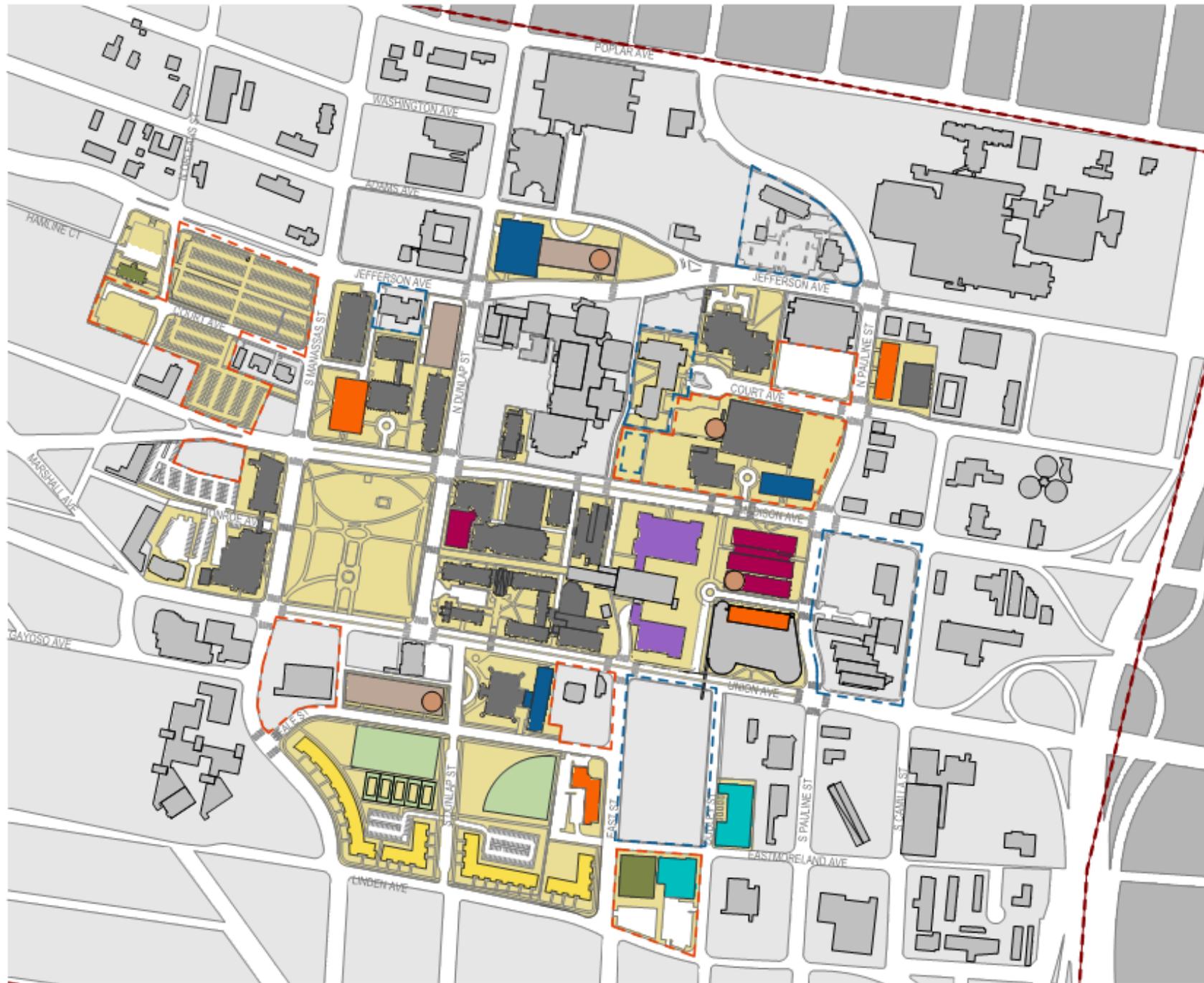
 DLR Group Primary Point of Contact:

Michael Del Giudice



UNDERSTANDING

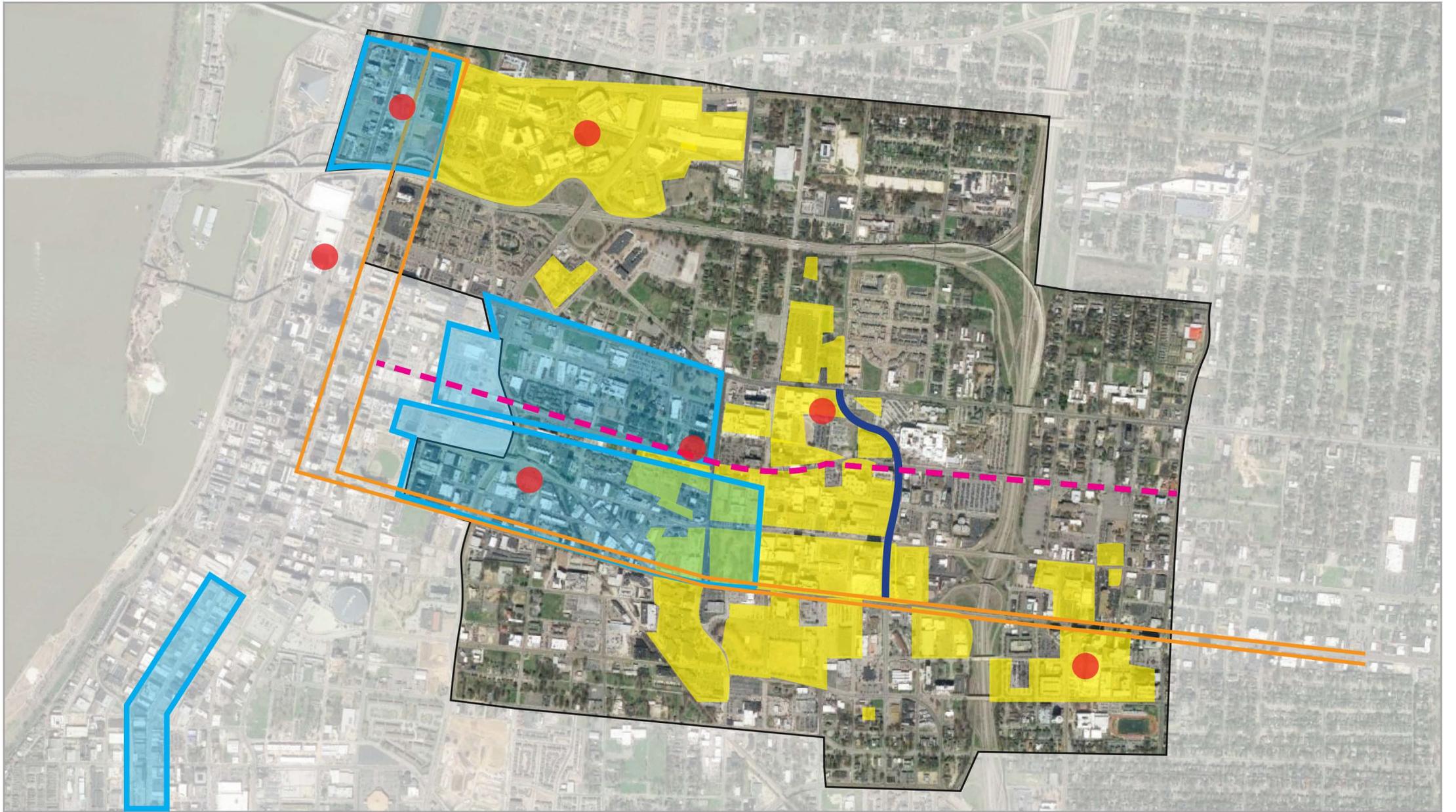
2015



PROPOSED FACILITY USE

- EXISTING UTHSC BLDG
- ACADEMIC
- RESEARCH
- CLINICAL
- ADMINISTRATIVE / STUDENT SUPPORT
- FACILITY SUPPORT
- HOUSING
- REC SPORTS FACILITIES
- GMP
- PARKING STRUCTURE
- POTENTIAL UTILITY PLANT
- MASTER PLAN BOUNDARY
- INSTITUTIONAL PARTNERSHIPS
- MULTI PURPOSE EXPANSION

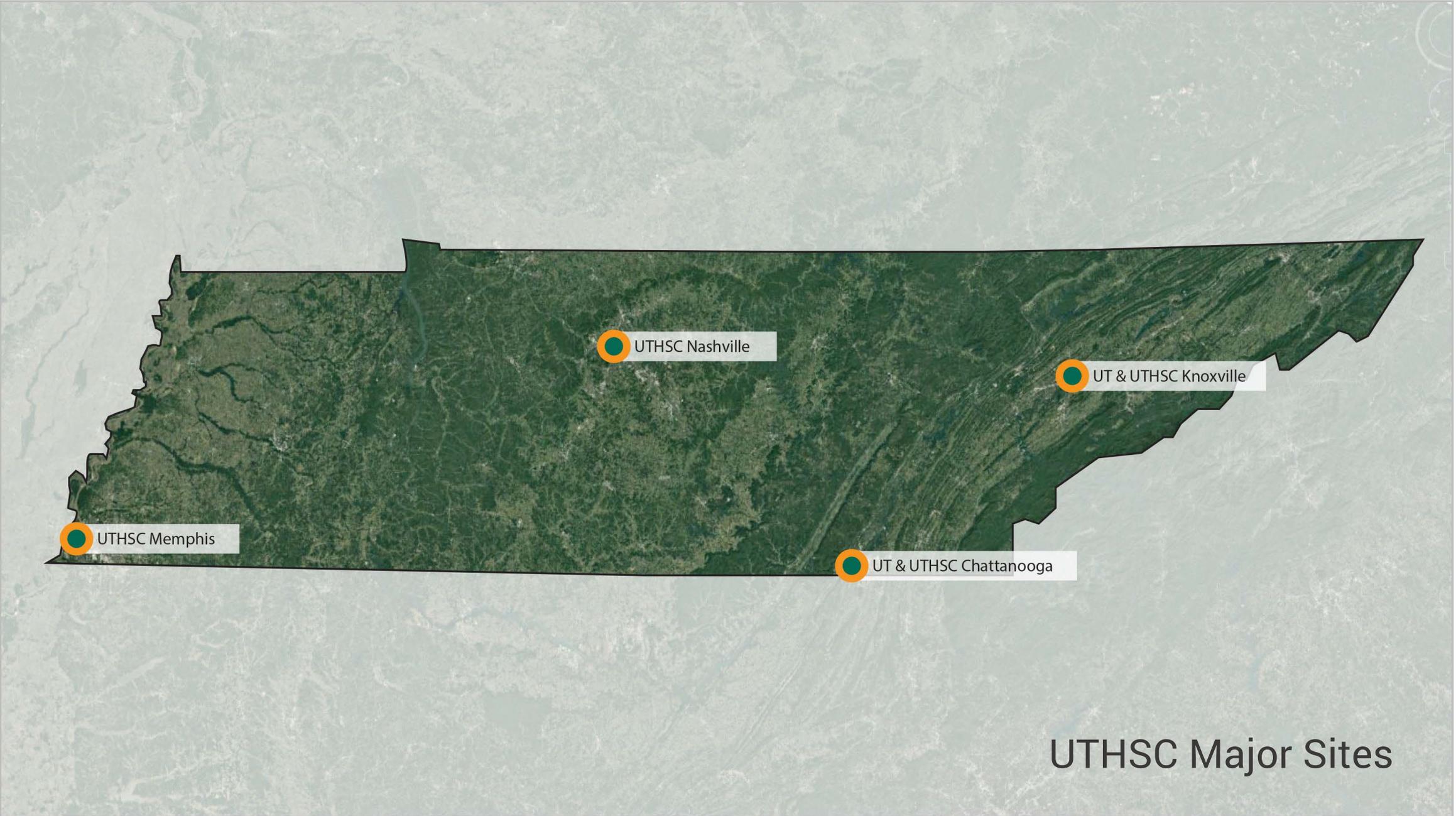
City/District



 Anchor Institutions  Developing Areas  Cycle Track  Pauline Ave Improvement  Memphis Innovation Corridor

 Key Projects

State



UTHSC Major Sites

Trends: Education, Research, + Clinical Care

**Integrated,
Interdisciplinary**



**Learning & Research,
Evidence Based**

**Data Driven,
Population Health,
Prevention**



**Virtual Medicine,
Emerging Technology**

Impacts: **Space**

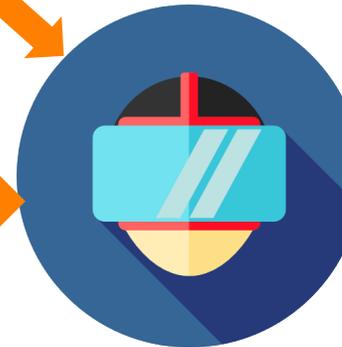
Shared Spaces



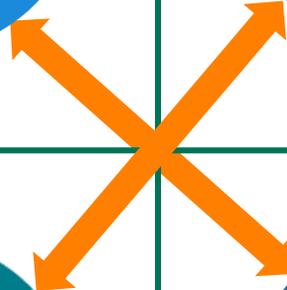
**Translational Research/
Bench to Bedside**



**Skill Development/
Specific Environments**



Access to Technology



Critical Questions:

- What **internal factors** are driving the Master Plan?
- What **external factors** are driving the Master Plan?
- What are the **key physical UTHSC needs** to meet change?
 - Land
 - Buildings
 - Utilities
 - Transportation/Circulation
 - Parking
 - Open Space



PROCESS

THEC Master Plan Guidelines

The Master Plan IS the **LINK** between UTHSC's Strategic and Academic Plans , Facilities Planning, and Capital Appropriation Requests.

- All Capital Improvement Request are Reviewed for (approved) Master Plan Conformity

Primary Guideline Requirements:

- **ENROLLMENT:** Analysis of Previous 10-Years + 5-10 Year Projections to Inform Future Space Need
- **SPACE NEEDS:** Full Space Inventory & Analysis per THEC Space Guidelines to Identify Future Need
- **SITE CONSIDERATIONS:** Land Use; Mobility, Circulation & Parking; Open Space; Stormwater, Community
- **DESIGN GUIDELINES:** Major Design Objectives for Future Campus Development
- **LAND ACQUISITION:** Inventory of Land, Ownership & Needed Land Acquisition or Disposal
- **INFRASTRUCTURE SYSTEMS:** General Conditions & Comparison of Current Demand/Capacity to Future Need
- **STUDENT LIFE/SERVICES | HOUSING/DINNING:** Inventory & Determine Future Qualitative & Quantitative Needs
- **IMPLEMENTATION | CAPITAL IMPROVEMENT:** Recommended Projects, Costs, Priorities & Development Timeline

Approval Process:

- UTHSC COMMITTEES  UT BOARD  THEC  SBC

Engagement Opportunities



Students



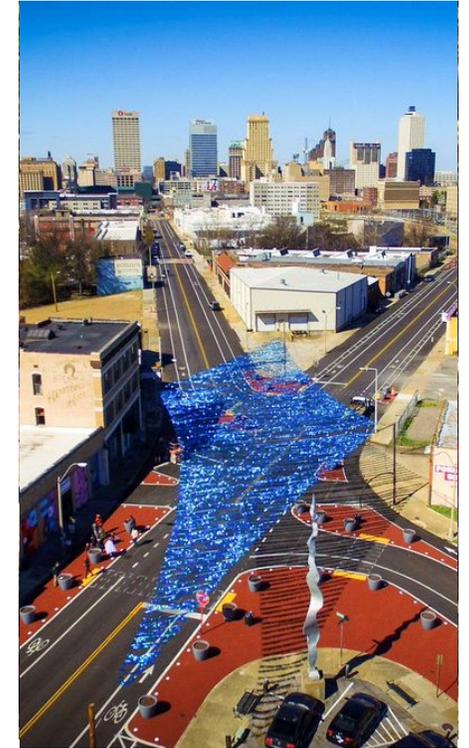
Faculty/Staff



Patients



Partners



Community

Proposed Engagement Strategy

Focus groups we will interact with during the project

- Students
- Staff
- Parking/Police
- Facilities
- Neighborhood Associations
- Transportation Partners
- Memphis Medical District Institutions
- City of Memphis
- Shelby County
- Others

Modes of interaction with the campus and community

- Interviews
- Open Houses
- Focus Groups
- Other

Proposed Engagement Strategy

February/March: **Targeted Interviews**

April: **Campus and Community Open House/Focus Groups**

- **Project Introduction; Poster Sessions (SWOT)**

May: **Focus Groups**

- **Big Ideas**

July: **Campus Open House and Focus Groups**

- **Review Concepts/Alternatives**

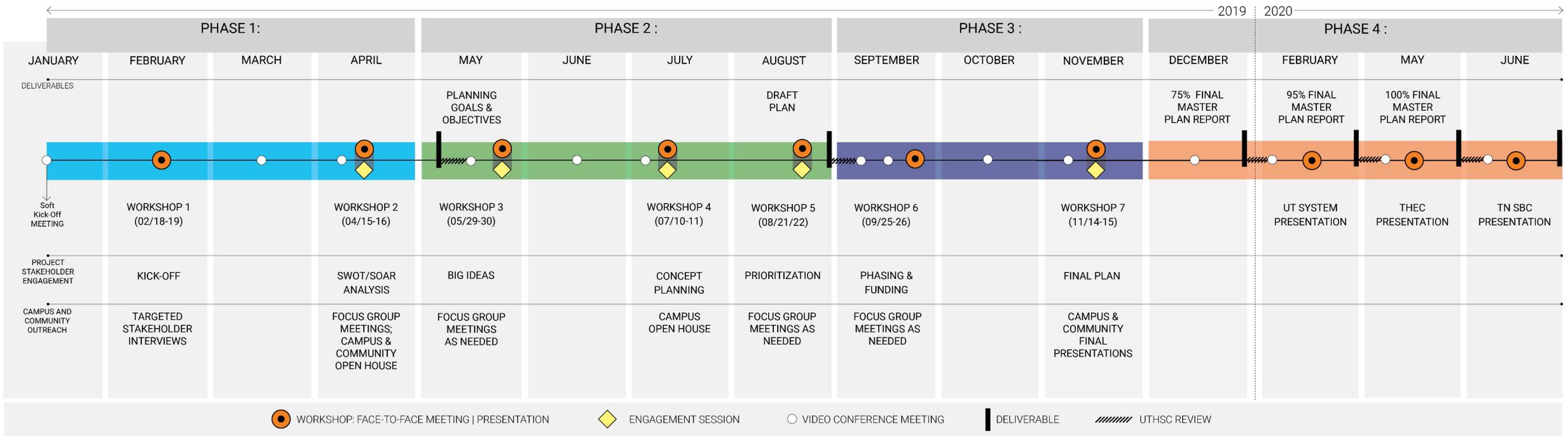
September: **Focus Groups**

- **Review Draft Plans**

November: **Campus and Community Open House**

- **Review Final Plan**

Proposed Process & Schedule



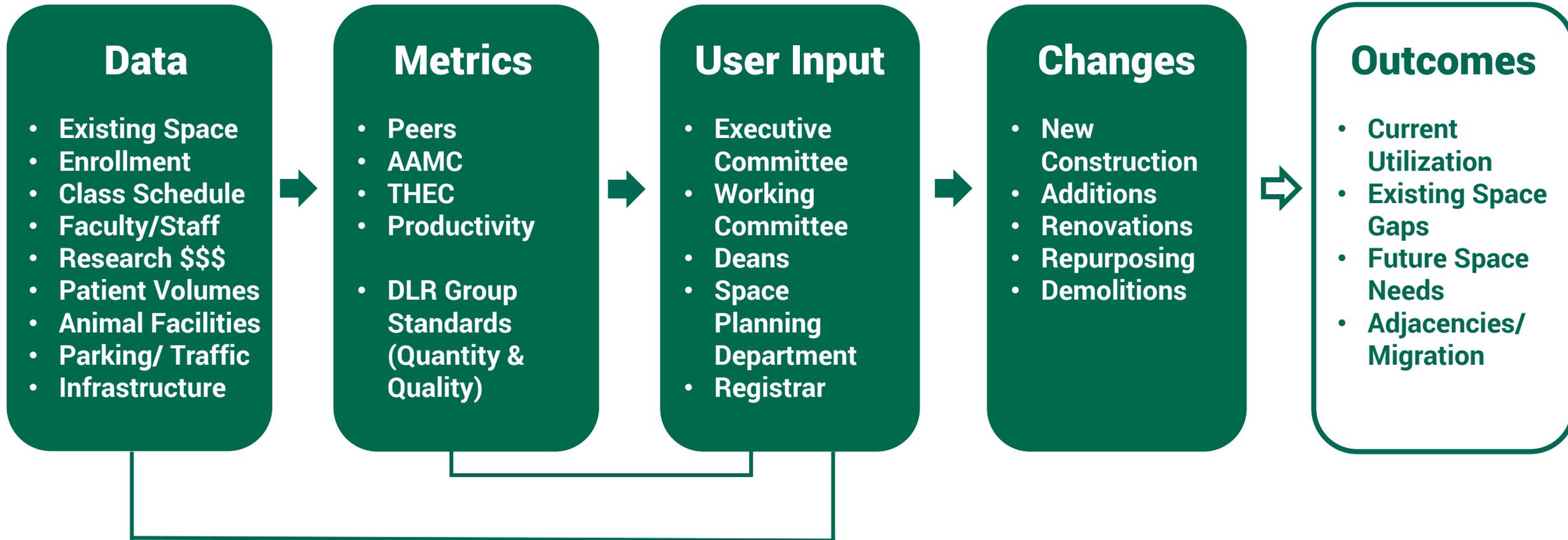
Critical Questions:

- Which **additional on-campus or off-campus stakeholders** does DLR Group need to engage?
- How should DLR Group engage with **UT and THEC**?
- What **issues, opportunities and conflicts** might impact the proposed process?

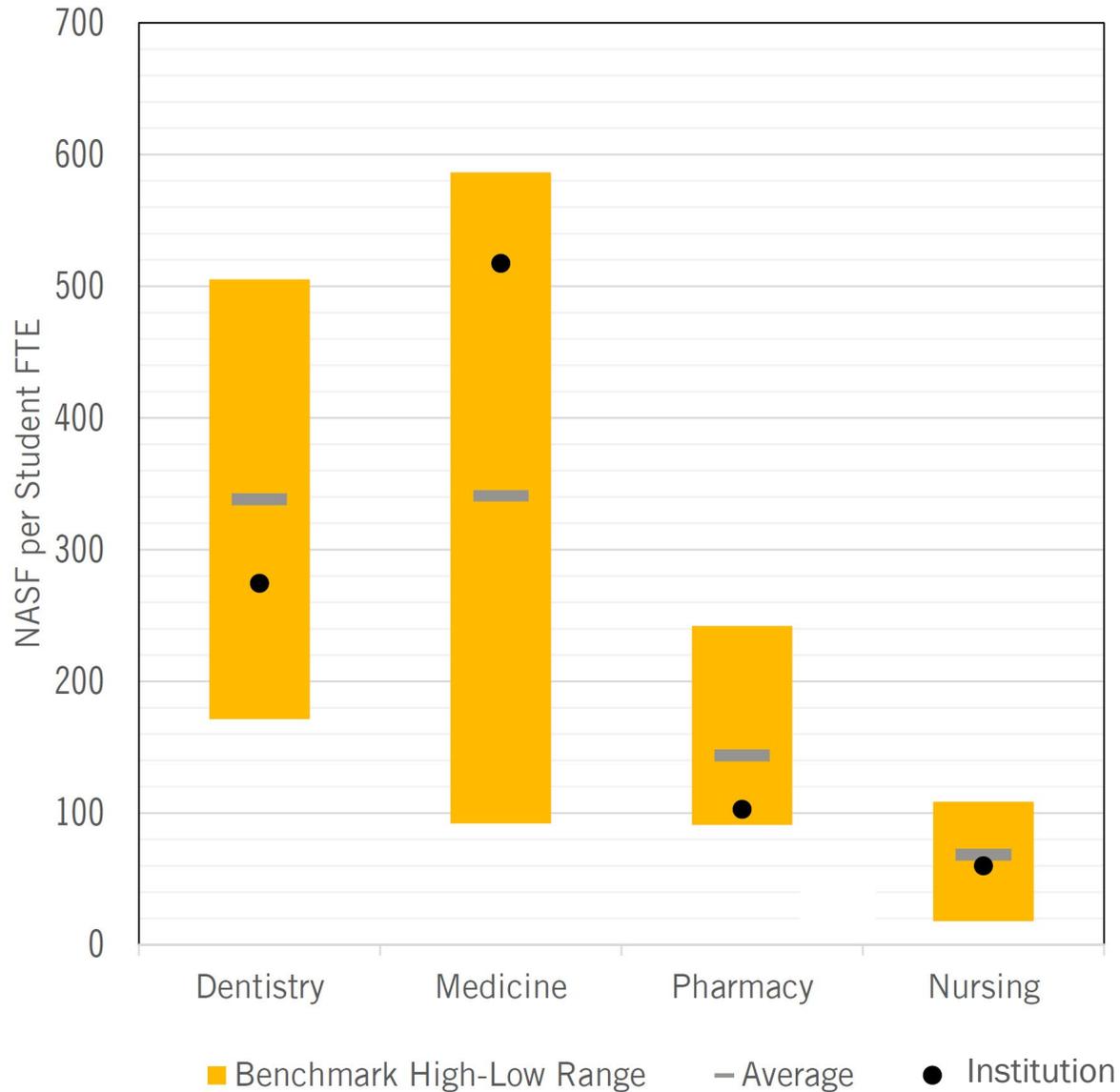


SPACE ANALYTICS

Space Analysis Process



Benchmarking by Space Use



Benchmarking by Activity

Experimental - Chemistry

AVG. GROUP SIZE
8.2 PEOPLE

GROUP BREAKDOWN



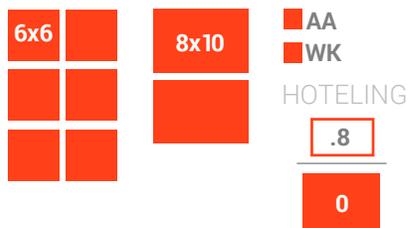
FACULTY / STAFF / ADMIN ASSIST

BENCHES & SUPPORT



BENCHES / LAB SUPPORT

WORKSTATIONS & OFFICE



TOTAL GROUP SPACE (ASF)

1,278

Experimental - Biological

AVG. GROUP SIZE
8.2 PEOPLE

GROUP BREAKDOWN



FACULTY / STAFF / ADMIN ASSIST

BENCHES & SUPPORT



BENCHES / LAB SUPPORT

WORKSTATIONS & OFFICE



TOTAL GROUP SPACE (ASF)

1,014

Experimental - Engineering

AVG. GROUP SIZE
8.2 PEOPLE

GROUP BREAKDOWN



FACULTY / STAFF / ADMIN ASSIST

BENCHES & SUPPORT



BENCHES / LAB SUPPORT

WORKSTATIONS & OFFICE



TOTAL GROUP SPACE (ASF)

1,014

Computational / Experimental

AVG. GROUP SIZE
8.2 PEOPLE

GROUP BREAKDOWN



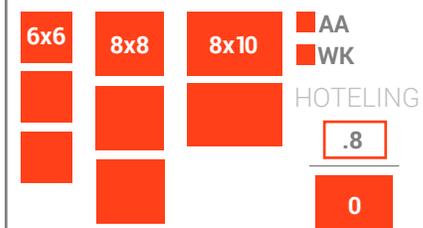
FACULTY / STAFF / ADMIN ASSIST

BENCHES & SUPPORT



BENCHES / LAB SUPPORT

WORKSTATIONS & OFFICE



TOTAL GROUP SPACE (ASF)

738

Computational

AVG. GROUP SIZE
8.2 PEOPLE

GROUP BREAKDOWN



FACULTY / STAFF / ADMIN ASSIST

WORKSTATIONS & OFFICE



TOTAL GROUP SPACE (ASF)

501

Benchmarking by Peer

	Penn State University Chemical & BioMedical Engineering State College, PA	Rowan Rutgers Health Science Center Camden, NJ	SUNY Buffalo UB SMBS Buffalo, NY	U of Chicago Inst. Molecular Eng'g Chicago, IL	U of Pittsburgh RiMed Sicily, PA	1650 Page Mill Stanford SoM San Francisco, CA	U of Florida Lake Nona A & R Center Orlando, FL	Wisconsin Inst. for Med Research Madison, WI
ITEM								
Ratio Wet to Dry Research Modules	12 to 1	4 to 1	4 to 1	1 to 1	4 to 1	2 to 1	8 to 1	6 to 1
Area per PI (SF)	1,304	1,500	850	2,490	1,440	1,382	875	1,400
PI + Research Team	PI + 6	PI + 6	PI + 4	PI + 15	PI + 8	PI + 10	PI + 6	PI + 6
Area per Researcher	186	214	170	156	160	126	125	200
Office Size Director (SF)	138	150	120	150	132	120	120 / 150	142
Work Station Size (SF)	50	35	31.5	50	20	50	18	30
Lab Bench LF Per	11'	6'	6'	12'	6'	6	6'	6'
Ratio Lab to Lab Support	1.4 to 1	1.5 to 1	1 to 1	2 to 1	1 to 1	1 to 1.7	2 to 1	3 to 4
Work Stations In or Out Lab	Outside	Outside	Outside	Both	Outside	Outside	Both	Outside
Net to Gross	58%	56%	58%	67%	52%	58%	54%	51%
Net Assignable SF	114,000	62,000	310,832	21,230	174,000	41,544	53,765	238,530
Gross SF	195,000	110,000	532,104	31,458	335,000	71,544	100,000	469,000
Vibration:								
Grade / Basement	VC-B	VC-A	VC-A	NIST-A	VC-F	VC-F	VC-D	VC-D
Typical Floor	4000	VC-A	VC-A	VC-A	VC-A	VC-A	VC-B	VC-A
Completed	2019	2019	2018	2014	2015	2015	2012	2008
Core Labs	Tissue Culture Laser Optics Autoclave Cold / Warm Room AFM	Vivarium Nursing Sim Lab Tissue Culture Autoclave Cold / Warm Rm	Molecule & Cell Imaging Vivarium Synthetic Med Chem Stem Cell Viral Vector	Laser / Optics Nanofabrication Cleanroom High Bay	Imaging Vivarium Glass Wash Molecular & Cell Imaging Partner Lab	Imaging Vivarium Flex Future	Vivarium Glass Wash	Imaging MRI PET/CT Vivarium Glass Wash Cycletron Computational

Integrating Data with Physical Planning



Critical Questions:

- Who are your **aspirational peers**? – Which institutions/schools/colleges do you look to first?
- What is the single **most important space issue** facing UTHSC/your program?
- How will UTHSC structure **instruction/research in the future**? – How will this impact campus space?



OPPORTUNITIES

The Mission of the University of Tennessee Health Sciences Center is to improve the health and well-being of Tennesseans and the global community by fostering integrated, collaborative, and inclusive education, research, scientific discovery, clinical care, and public service.

UTHSC Strategic Map: 2018-2019 to 2022-2023

Goals Impacting the Master Plan:

- Educate Outstanding Graduates to Meet the Needs of the State & its Communities
- Grow Research Portfolio Focusing on Targeted Areas
- Create Areas of Clinical Prominence while Expanding Outreach
- Align UTHSC resources with Areas of Excellence
- Expand & Strengthen Key Community & Other Partners
- Increase Strategic Integration Across UTHSC

Supporting UTHSC Strategic Map Objectives

Tasks impacting the Master Plan:

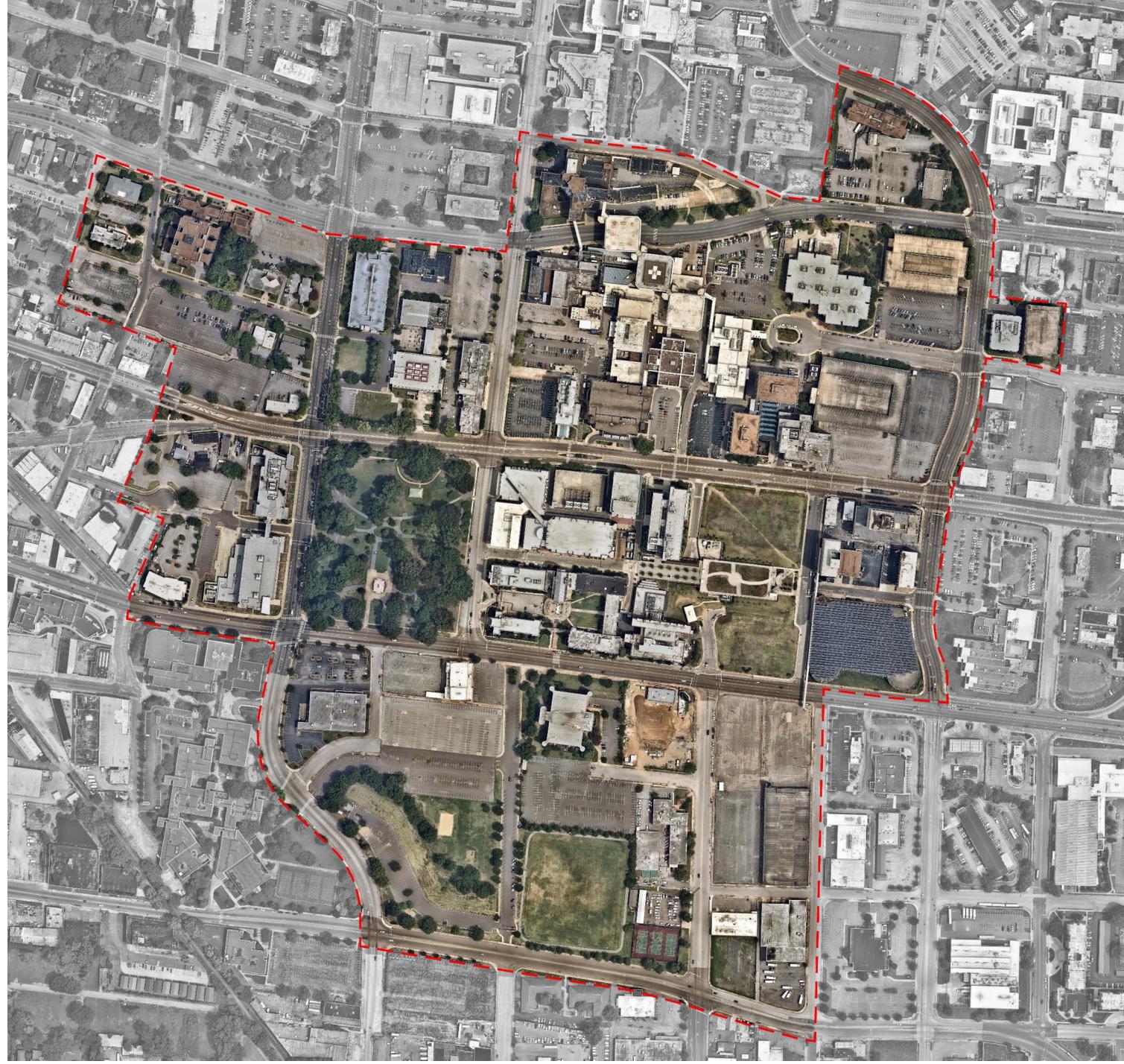
- Expand & Strengthen Team-Based Interprofessional Educational Experiences
- Cultivate & Sustain Effective Educational Models & Technologies to Enhance Student Learning & Engagement
- Provide Necessary Infrastructure for Research & Scholarship
- Renovate Facilities to Stimulate Learning Scientific Discovery, and Research
- Address Prioritized Needs/Deficits Requiring Additional Resources
- Allocate Space Based on Need Across UTHSC
- Re-engineer Clinical & Core Services to Increase Effectiveness & Efficiency

Critical Questions:

- What **Master Plan outcomes** are needed to achieve UTHSC Strategic Map goals and objectives?
- What is your **future vision** for:
 - the physical UTHSC campus?
 - the Memphis Medical District?
- How should **UTHSC's role** in Memphis, Shelby County and Statewide evolve over the next 5 - 10 years?

Critical Opportunities

- Targeted Outcomes
- Clear Future Vision
- Elevated Community Role



Next Steps

- Stakeholder Interviews
- Data Analysis
- Physical Assessment
- Open House Preparation





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DEPARTMENT OF
NURSING
BIOLOGICAL
SCIENCE

DENTISTRY
PHARMACY
GRADUATE
SCHOOL

DLR Group | brg3s | Kimley-Horn

Connico Inc. | Allen & Hoshall |

WORKSHOP 01
FEBRUARY 18, 2019